

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A device for insertion into a standard tape player having a plurality of conventional user controls comprising:

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a housing having substantially the same physical dimensions as a standard audio cassette;

a storage device arranged within the housing for storing encrypted digital information indicative of audio information;

an interface embodied in said housing for converting digital information to magnetic signals which are presented to said tape player; and

a processor embodied in the housing, said processor being operable to access said encrypted digital information for decrypting said digital information and for controlling the transmission of decrypted audio information to said interface.

2. (currently amended) An interface device according to claim 1, ~~further including~~ wherein the housing of the device includes an insertion port for removably receiving said storage device.

3. (original) A device according to claim 1, wherein said audio information is music and said processor is operable to select for playback by said tape player a user specified musical performance.

4. (original) A device according to claim 3, wherein said user specified musical performance is specified by advancing to the next performance.

a 5. (original) A device according to claim 3, wherein said user specified musical performance is specified by musical performance number.

6. (original) A device according to claim 1, further including a memory for storing a device private key and wherein said processor performs said decrypting operation using said device private key.

7. (original) A device according to claim 6, wherein said device private key has an associated public key.

8. (original) A device according to claim 7, wherein said associated public key has a digital certificate which certifies that the public key is associated with said device.

9. (original) A device according to claim 1, wherein said processor is operable to check whether the digital information may be validly presented to said user.

10. (original) A device according to claim 1, further including a connector for connecting said device to an external speaker, said processor being operable to control operation in a cassette emulator mode and in an audio player mode independent of said standard tape player.

11. (currently amended) A device for insertion into a standard audio tape player having a plurality of conventional user controls comprising:

a housing having substantially the same physical dimensions as a standard audio cassette;

a storage device embodied in said housing for storing digital data encrypted in accordance with a cryptographic key, said encrypted data representing audio information to be presented to a user;

an interface embodied in said housing for converting digital information to magnetic signals which are presented to said audio tape player; and

a processor embodied in the housing for decrypting said encrypted information in accordance with a device cryptographic key.

12. (original) A device according to claim 11, wherein said audio information includes a plurality of musical performances and wherein said processor is responsive to user actuation of at least one of said audio tape player user controls to select a desired one of said plurality of musical performances for playback.

13. (original) A device according to claim 11, wherein said processor is operable to check whether the digital information may be validly presented to said user.

14. (original) A device according to claim 11, further including a connector for connecting said device to an external speaker, said processor being operable to control operation in a cassette emulator mode and in an audio player mode independent of said standard tape player.

15. (original) A device for insertion into an audio tape player having a plurality of user controls and for responding to user actuation of one of said controls to place said audio tape player in a state to initiate a selected operation when a conventional audio cassette has been inserted into said player, said device comprising:

a storage device for storing digital information representing audio information;

a memory for storing a secret private key corresponding to a device public key;

an interface for converting digital information read out of said storage device to magnetic signals which are presented to said audio tape player;

a plurality of sensors to detect the state of said audio cassette player; and

a processor responsive to the state of at least one of said plurality of sensors for controlling said device to initiate an operation emulating the user selected operation on said audio cassette player, said processor being operable to perform a decryption operation by accessing said secret private key corresponding to a device public key stored in said memory.

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16. (original) A device according to claim 15, wherein said plurality of sensors includes a transducer carriage position sensor.

17. (original) A device according to claim 15, wherein said plurality of sensors includes a tape player pinch roller sensor.

18. (original) A device according to claim 15, wherein said plurality of sensors includes spindle wheel sensor.

19. (original) A device according to claim 15, wherein said plurality of sensors includes a tape player erase head sensor.

20. (original) A device according to claim 15, further including a connector for connecting said device to an external speaker, said processor being operable to control

operation in a cassette emulator mode and in an audio player mode independent of said standard tape player.

a! 21. (currently amended) For use with an interface device for insertion into an audio tape player having a plurality of user controls and for responding to user actuation of one of said controls to place said audio tape player in a state to initiate a selected operation when a conventional audio cassette has been inserted into said player, a method for acquiring audio information for said device comprising the steps of:

requesting audio information by a user from a vendor by providing an indication of the audio information to be acquired and an indication of the unique identity of the device to receive the audio information;


receiving audio information encrypted by the vendor under a device cryptographic key that corresponds to the indication of the unique identity of the device, said device cryptographic key being unique to the device; and

storing the audio information received from the vendor in a memory in the device.

22. (currently amended) A method according to claim 21, wherein said requesting step includes the step of requesting audio information by a user over a network through the user's computer by providing the unique identity of the device.

23. (original) A method according to claim 21, wherein said receiving step includes the step of receiving the audio information from another user's interface device.

24. (original) A method according to claim 21, wherein said requesting step includes the step of

 transmitting billing authorization information to the vendor, whereby the vendor may check the validity of the billing authorization information.

25. (currently amended) A method according to claim 21, wherein said receiving step includes the step of receiving the audio information from the vendor wherein the audio information has been encrypted under the device cryptographic key from a plurality of possible device cryptographic keys in a way that ties the reading of said audio information to the possession, by said device, of a corresponding device cryptographic key, transferring the encrypted audio information to a removable memory for the device, and coupling the removable memory to the device.

26. (original) A method according to claim 21, wherein the step of decrypting the audio information includes the step of decrypting the audio information using a device private key.

27. (original) A method according to claim 21, wherein the received encrypted information is digitally signed and further including the step of verifying the signed material using a public key which can be verified by virtue of indicators stored within the device.

a 28. (original) A method according to claim 21, wherein the audio information is encrypted such that it is accessible only by the device.

29. (original) A method according to claims 21, further including the step of storing a library of encrypted audio information on a memory external to the device.

30. (original) A method according to claim 21, wherein the audio information contains a header containing information about the audio information.

31. (original) For use with an interface device for insertion into an audio tape player having a plurality of user controls and for responding to user actuation of one of said controls to place said audio tape player in a state to initiate a selected operation when a conventional audio cassette has been inserted into said player, a method for operating said device comprising the steps of:

storing encrypted digital data representing audio information in a memory device disposed in said device;



accessing by a processor embodied in said device said encrypted digital information;

decrypting by said processor said encrypted digital information;

controlling the transmission of decrypted audio information to an interface; and

converting digital information to magnetic signals which are presented to said tape player.

32. (original) A method according to claim 31, further including the step of storing a secret private key corresponding to a device public key.

33. (currently amended) For use with an interface device for insertion into an audio tape player having a plurality of user controls and for responding to user actuation of one of said controls to place said audio tape player in a state to initiate a selected operation when a conventional audio cassette has been inserted into said player, a method for operating said device comprising the steps of:

storing encrypted digital data representing audio information in a memory device disposed in said device;

accessing by a processor embodied in said device said encrypted digital information;

decrypting by said processor said encrypted digital information;

controlling the transmission of decrypted audio information to an interface; and

converting digital information to magnetic signals which are presented to said tape  
player;

~~A method according to claim 31, further including the steps of detecting by a~~  
plurality of sensors the state of said audio cassette player; and

controlling by said processor responsive to the state of at least one of said  
plurality of sensors said device to initiate an operation emulating the user selected  
operation on said audio cassette player.

a! 34. (original) A method according to claim 32, wherein said processor is  
operable to perform a decryption operation by accessing a secret private key  
corresponding to a device public key.

35. (original) In an interface device for transferring digital data to  
equipment designed to process magnetic storage media signals and having a plurality of  
user controls, the method comprising the steps of:

storing in the device encrypted digital information relating to a performance to be  
presented to a user;

inserting the device into the equipment;

decrypting the encrypted digital information;

converting the digital information to magnetic signals which are presented to the  
equipment's magnetic sensors;

detecting changes in operation of the equipment intended to control the magnetic media; and

generating an audio message relating to the performance presentation in response to the user actuating at least one of said user controls.

a! 36. (original) A method according to claim 35, wherein said audio message is an announcement of the amount of time which has been skipped forward.

37. (original) A method according to claim 35, wherein said audio message is an announcement of the amount of time which has been skipped backward.

38. (original) A method according to claim 35, wherein said audio message is an announcement of the relative performance completed with respect to the start of the performance presentation.

39. (original) A method according to claim 35, wherein said audio message relates to an announcement relating to the relative media position with respect to the start of the performance.

40. (original) A method according to claim 35, wherein said audio message is an announcement relating to the media position relative to when normal play last stopped.

41. (original) A method according to claim 35, wherein said audio message is an announcement that the transmission has been paused.

a' 42. (original) A method according to claim 35, wherein said audio message is an announcement that the information is positioned to start back at the beginning of the performance presented to the user.

43. (original) A method according to claim 35, wherein said audio message is generated by the device.

44. (original) A method according to claim 35, wherein said audio message is derived from information that has been prestored in a digital memory embodied in the device.

45. (original) The method according to claim 35, wherein the equipment includes a fast forward control and further including the step of generating magnetic

signals in response to the actuation of said fast forward control by generating audio sounds that occur at a relatively rapid rate.

46. (original) The method according to claim 35, wherein the equipment includes a reverse control and further including the step of generating magnetic signals in response to user actuation of the reverse control by processing digital information to be presented successively earlier in time.

a! 47. (new) A device according to claim 11, wherein the housing of the device includes an insertion port for removably receiving said storage device.

48. (new) A method according to claim 31, wherein the processor and memory device are arranged within a housing of the device, and the housing of the device has substantially the same physical dimensions as a standard audio cassette.

49. (new) An interface device according to claim 48, wherein the housing of the device includes an insertion port for removably receiving said storage device.

50. (new) A method according to claim 21, wherein said device cryptographic key is a symmetric key.

51. (new) A method according to claim 21, wherein said device cryptographic key is a private key and has a corresponding public key.

52. (new) A method according to claim 50, wherein said symmetric device cryptographic key is generated within the device, is stored in a tamper proof memory in the device, and is securely stored in records associated with the unique device.

a! 53. (new) A method according to claim 51, wherein said device cryptographic private key is generated within the device stored in a tamper proof memory in the device, and said device cryptographic public key is generated within the device and made available for retrieval.

54. (new) A method according to claim 50, wherein said symmetric device cryptographic key is loaded within the device at the time of manufacture, and is securely stored in the records associated with the device indicated by the unique identity.

55. (new) A method according to claim 51 wherein said device cryptographic private key is loaded within the device at the time of manufacture, and the corresponding device cryptographic public key is stored with the records of the device.

a1 56. A method according to claim 21, wherein the step of receiving audio information encrypted by the vendor under a device cryptographic key that is unique to the device, includes receiving audio information encrypted by the vendor under a plurality of device cryptographic keys that are unique to a plurality of devices.

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